

Attachment 2

Drawings

DTFASO-10-R-00170

**Fire Hydrant Removal and Installation Project
San Juan CERAP, San Juan, Puerto Rico**

[illegible]

VICINITY MAP
NOT TO SCALE

14	APPROVED DATE	15	DECLASSIFICATION	16	DATE CLASSIFIED	17	BY
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS				EASTERN SERVICE AREA			
CERAP							
COVER SHEET AND VICINITY MAP							
18	DATE FILED	19	FILED	20	FILED	21	FILED
22	23	24	25	26	27	28	29
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1406	1407	1408	1409	1410	1411	1412	1413

CONSTRUCTION ACCESS, CONTRACTOR PARKING, CONSTRUCTION OFFICES AND THE EXTENT/SIZE OF THE CONSTRUCTION STAGING AREA MUST BE COORDINATED WITH THE CONSTRUCTION OF FICHER REPRESENTATIVE (CGR) PARTICIPULARLY IN CONJUNCTION WITH ONGOING PROJECTS. EACH PROJECT HAS THE SAME GENERAL REQUIREMENTS, AND SITE PROBLEMS MAY PRECLUDE THE VARIOUS ALLOWANCES LISTED BELOW.

A.1 CONTRACTOR'S ACCESS (VEHICLE AND PEDESTRIAN) TO THE SITE SHALL BE THROUGH THE FRONT FAA SECURITY GATE. THIS GATE AND FACILITY ARE MANAGED 24 HOURS A DAY.

- A-1 CONTRACTOR'S ACCESS (VEHICLE AND PEDESTRIAN) TO THE SITE SHALL BE THROUGH THE FRONT FEA SECURITY GATE. THIS GATE AND FACILITY ARE NAMED "4" HOUSES A DRY".
- A-2 ALL DELIVERIES SHOULD BE SCHEDULED AT TIMES OTHER THAN THE FEA DECUR AT 6:30 - 8:00 A.M. AND AT 2:30 - 5:00 P.M.
- A-3 ACCESS GPP DELIVERIES TO THE CATERPILLAR, LOADING DOCK, AND ENGINE GENERATOR BUILDING MUST BE MAINTAINED.
- A-4 DRIVEWAY SHALL REMAIN OPEN AT ALL TIMES.
- A-5 PROVIDE SIGNAGE TO INDICATE THE ACCESS FOR CONSTRUCTION EMPLOYEES AND SIGNAGE TO PROTECT MAIN AND DIRECT ALL PERSONS NEAR THE CONSTRUCTION AREAS.

B.1. AN ADVANCE LIST OF CONSTRUCTION PERSONNEL SHALL BE PROVIDED TO THE COR. ALL DELIVERIES SHALL BE SCHEDULED IN ADVANCE WITH THE COR. EACH CONSTRUCTION EMPLOYEE SHALL CHECK IN AND OUT AT THE FRONT SECURITY GATE.

- B-1. CONTRACTOR SHALL PROVIDE READILY IDENTIFIABLE CONTRACTOR BADGES TO CONTRACTOR PERSONNEL.
- B-2. THE SITE IS TO BE SECURE AREA AND ALL CONSTRUCTION PERSONNEL SHALL REMAIN IN THE CONSTRUCTION AREAS AT ALL TIMES.
- B-3. FAA ESCORTS MAY BE REQUIRED FOR CONSTRUCTION PERSONNEL WORKING WITHIN THE EXISTING BUILDING OUTSIDE THE DESIGNATED CONSTRUCTION AREA. CONSTRUCTION ALL WORK OUTSIDE THE DESIGNATED AREAS WITH COR. ESCORTS OUTSIDE THE BUILDING WILL NOT BE REQUIRED.
- B-4. THE CONTRACTOR SHALL TAKE GREAT CARE AND CAUTION WHILE WORKING WITHIN THE OPERATIONS BUILDING.

TO THE CONSTRUCTION STAGING AREA AS SHOWN ON THE CONSTRUCTION STAGING PLAN. MATERIALS SHALL BE NEATLY STORED AND PROTECTED AT ALL TIMES. CONTRACTOR SHALL DO NO DIGGING WITHOUT PERMISSION FROM COR.

D.1 A CONSTRUCTION FENCE MAY BE PROVIDED AROUND THE CONSTRUCTION STAGING AREA AT THE CONTRACTOR'S OPTION. THE FENCE SHALL BE FOUR (4) TO SIX (6) FEET HIGH CHAIN LINK TYPE CONSTRUCTION. THE FENCE SHALL BE PROPERLY MAINTAINED TO WITHSTAND ADVERSE WEATHER CONDITIONS. CONSTRUCTION AND WELL MAINTAINED CONSTRUCTION FENCES SHALL BE REMOVED. UPON COMPLETION OF CONSTRUCTION, ALL CONSTRUCTION FENCES SHALL BE REMOVED. ALL AREAS AND SURFACES DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.

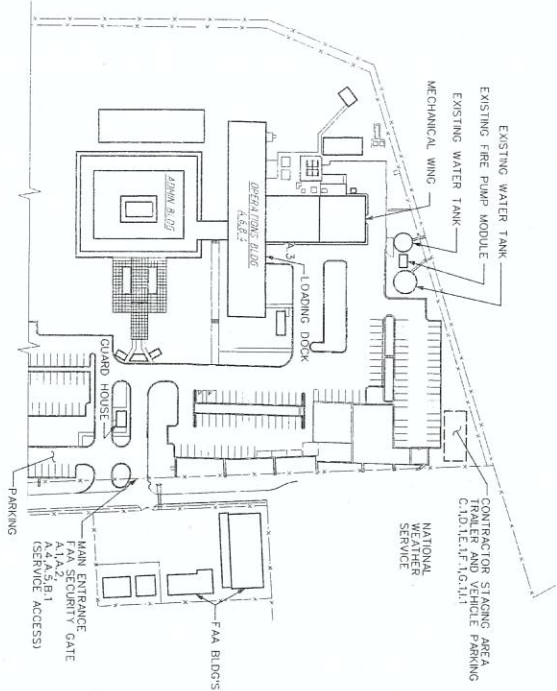
E.1 ENCLOSED DUMPSTERS FOR DISPOSAL OF CONSTRUCTION DEBRIS SHALL BE PROVIDED BY THE CONTRACTOR WITHIN THE STAGING AREA. THE AREA AROUND THE DUMPSTERS SHALL BE KEPT CLEAN AND FREE OF EXCESS DEBRIS AND DUST DURING CONSTRUCTION. ALL DEBRIS SHALL BE REMOVED BY CONTRACTOR.

F.1 CONTRACTOR TRAILER IF FURNISHED FOR OFFICE AND MATERIALS AND EQUIPMENT STORAGE MAY BE LOCATED WITHIN THE CONSTRUCTION STAGING AREA. THE CONTRACTOR SHALL PROVIDE TELEPHONE, POWER AND WATER FOR HIS USE.

6.1 PORTABLE CHEMICAL TOILETS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED WITHIN THE FENCED CONSTRUCTION STAGING AREAS.

H.1 THE CONTRACTOR SHALL NOT INTERFERE WITH THE AIR TRAFFIC CONTROL FUNCTION OF THE FACILITY. DEMOLITION AND CONSTRUCTION NOISE MUST BE MINIMIZED AT ALL TIMES.

- H-2 CONCRETE SAWING, CORE DRILLING, CONCRETE DEMOLITION AND ANCHOR DRILLING WILL BE ALLOWED ONLY AT PREARRANGED TIMES APPROVED BY THE CON.
- H-3 REMOVAL OF CONSTRUCTION DEBRIS FROM THE BUILDING SHALL BE LIMITED TO THE HOURS BETWEEN 4:30 P.M. AND 7:30 A.M.



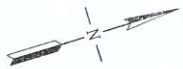
1
6003 SITE PLAN

NOTE: THE NUMBERS ON THIS DRAWING REFER TO THE "CONSTRUCTION STAGING PLAN NOTES".

1.1 UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ALL PAVED SURFACES DAMAGED BY CONSTRUCTION ACTIVITIES TO ORIGINAL CONDITION.

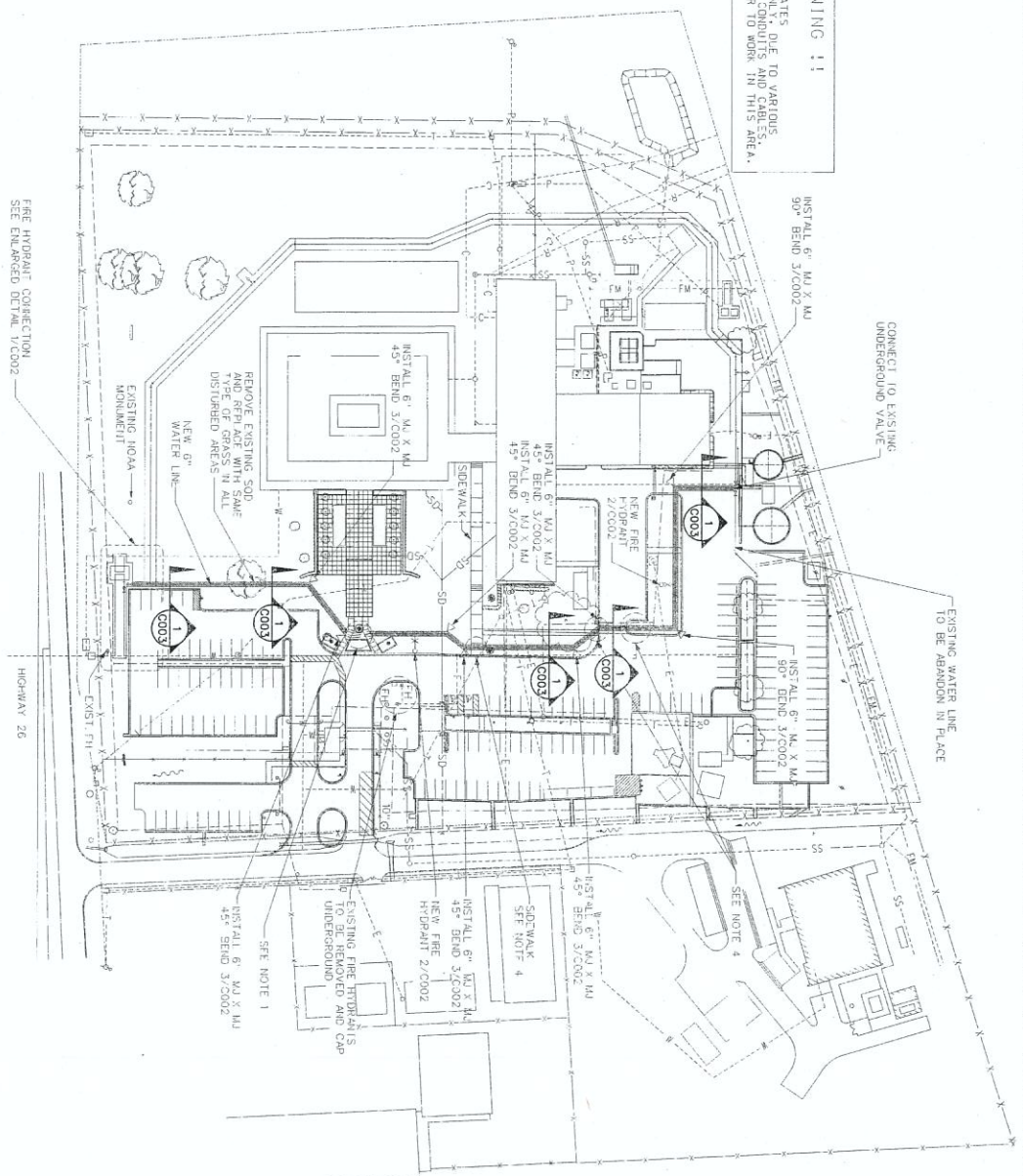
J.1 A SET OF "AS BUILT" DRAWINGS SHALL BE MAINTAINED BY AND UNDER THE CONTROL OF THE CONTRACTOR DURING CONSTRUCTION. ON COMPLETION OF CONSTRUCTION TURN OVER TO THE COR.

[illegible]



CONTRACTOR WARNING !!

AREA TO BE HAND EXCAVATED ONLY. DUE TO VARIOUS HISTORICAL RECORDS AND UNRECORDED UTILITIES, CONTRACTOR MUST PROTECT PRIOR TO WORK IN THIS AREA.



1 SITE PLAN
50' 0 50' 100'
SCALE 1\"/>

FIRE HYDRANT CONNECTION
SEE ENLARGED DETAIL 1/C002

HIGHWAY 26

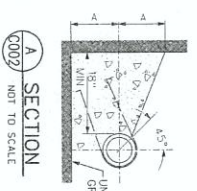
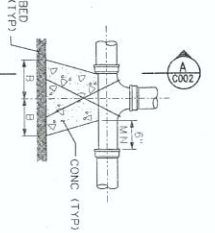
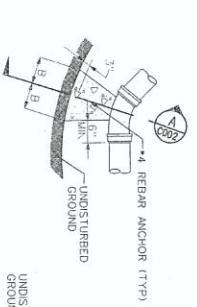
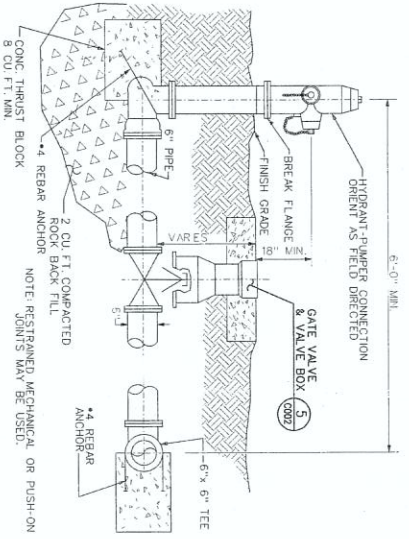
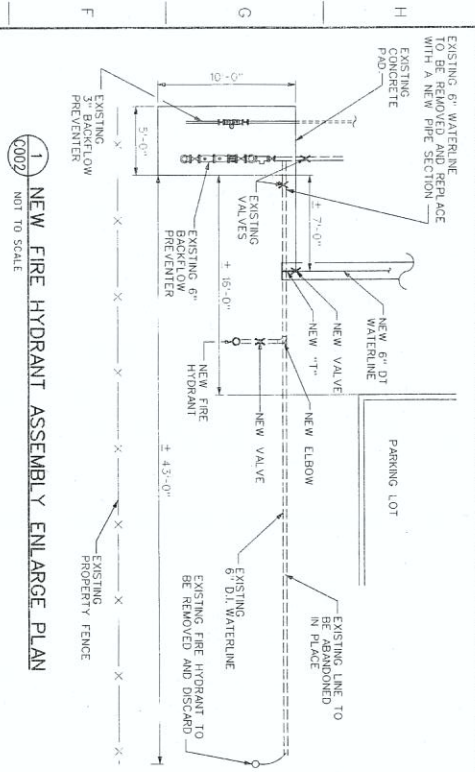
NOTES

1. IN THIS AREA CONTRACTOR RESPONSIBLE TO DIG UNDER THE SIDE WALK, WITHOUT DISTURBING THE SIDE WALK. ALL DISTURBED AREAS THAT ARE NOT IN PAVEMENT OR WALK AREAS SHALL BE SLOPED WITH SAME TYPE OF GRASS.
2. TRENCH ROUTING SHOWN ON THIS DRAWING IS GENERAL. CONFIRM ACTUAL TRENCH ROUTING IN THE FIELD WITH RESIDENT ENGINEER.
3. IF SIDEWALK OR CONCRETE CURB AND GUTTER ARE DISTURBED CONTRACTOR RESPONSIBLE TO REPAIR THEM TO ITS ORIGINAL CONDITION.
4. ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE PIPES.
5. CONCRETE SHALL DEVELOP 3000 PSI AT 28 DAYS.
6. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.

LEGEND

- AREA TO BE HAND EXCAVATED ONLY. DUE TO VARIOUS HISTORICAL RECORDS AND UNRECORDED UTILITIES, CONTRACTOR MUST PROTECT PRIOR TO WORK IN THIS AREA.
- CONCRETE THROST BLOCK
- NEW GATE VALVE, VALVE BOX
- MECHANICAL JOINT

SAN JUAN		FIRE HYDRANT LINE INSTALLATION PROJECT SITE PLAN	
DESIGNED BY	Robert Estrada	APPROVED BY	Angel A. Arango
PROJECT ENGINEER		DATE	04/15/2010
ENGINEERING SERVICES		PROJECT NO.	ZSU-D-900378-C001
DATE	04/15/2010	PROJECT NO.	ZSU-D-900378-C001
PROJECT NO.	ZSU-D-900378-C001	PROJECT NO.	ZSU-D-900378-C001
PROJECT NO.	ZSU-D-900378-C001	PROJECT NO.	ZSU-D-900378-C001



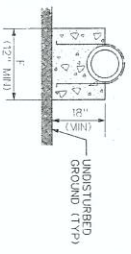
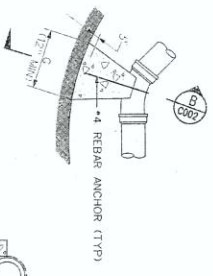
3 HORIZONTAL THRUST BLOCKS
NOT TO SCALE

HORIZONTAL THRUST BLOCK TABLE

90° BEND	45° BEND	22° BEND	TEE
6" 16"	6" 12"	6" 12"	6" 12"
8" 24"	8" 18"	8" 18"	8" 18"

NOTE: BASED ON 2500 PSF SOIL AND 150 PISSTATIC PRESSURE

LOWER VERTICAL BENDS
NOT TO SCALE



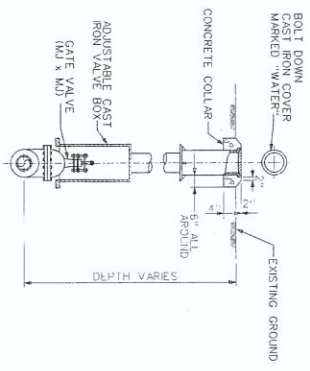
VERTICAL THRUST BLOCK TABLE

90° BEND	45° BEND	22° BEND
6" 16"	6" 12"	6" 12"
8" 24"	8" 18"	8" 18"

SECTION B. NOT TO SCALE

4 VERTICAL THRUST BLOCKS
NOT TO SCALE

5 GATE VALVE & VALVE BOX
NOT TO SCALE



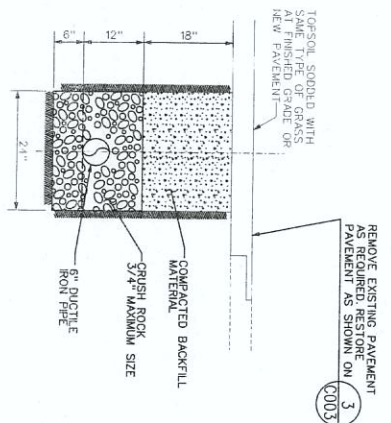
ISSUED FOR CONSTRUCTION

PROJECT: FIRE HYDRANT LINE INSTALLATION PROJECT
SHEET: TYPICAL DETAILS SHEET 1 OF 2

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 04/26/2006
PROJECT NO: 900378
SHEET NO: 01

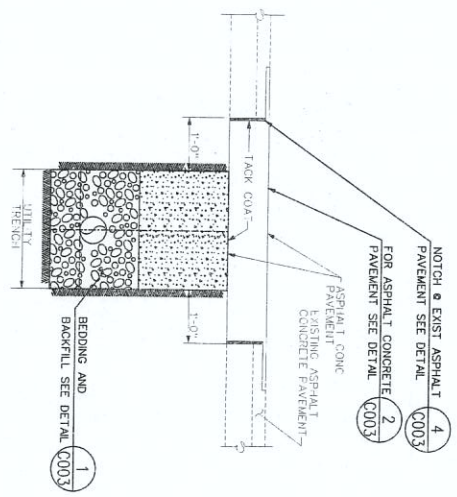
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATC - TECHNICAL OPERATIONS
EASTERN SERVICE AREA
CERAP

FOR: [Signature]
DATE: 04/26/2006
PROJECT NO: 900378
SHEET NO: 01

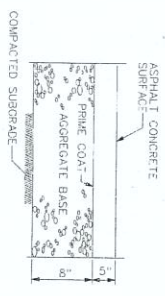


3 REMOVE EXISTING PAVEMENT AS REQUIRED, RESTORE PAVEMENT AS SHOWN ON 3.003

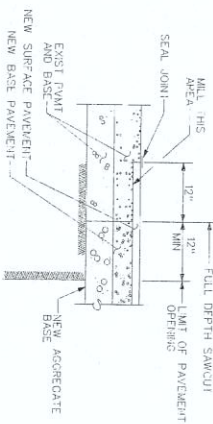
NOTE: AT ALL TIMES COMPLY WITH TRENCH EXCAVATION SAFETY REQUIREMENTS, CODES AND ORDINANCES AS TO STOPPING, MULTIPLE EGRESS PROVISIONS, SHIELDING, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY UNDERGROUND CONDUIT OR PIPE DAMAGE DURING THE EXCAVATION OF PROPOSED PIPE.



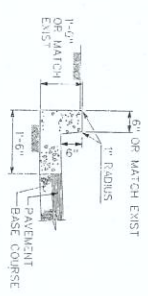
4 TYPICAL TRENCH DETAIL
NOT TO SCALE



2 PAVEMENT ASPHALT CONCRETE
NOT TO SCALE



4 PAVEMENT NOTCH
NOT TO SCALE



5 CONCRETE CURB & GUTTER
NOT TO SCALE

- NOTES
1. AFTER BACKFILLING EXCAVATION, SAWCUT EXIST PWT AT LEAST 12" OUTSIDE LIMITS OF PWT OPENING.
 2. BEFORE PLACING SURFACE COURSE, MILL EXIST PWT 12" WIDE FOR FULL DEPTH OF NEW SURFACE COURSE, TRIM TO VERT EDGE.
 3. COAT ALL VERT SURFACES OF EXIST PWT WITH ONE COAT OF HOT ASPHALT CEMENT, CLASS AC-20, TRACK COAT ALL HORIZONTAL SURFACES TO RECEIVE PWT.
 4. SEAL JOINT WITH 6" WIDE STRIP OF HOT ASPHALT CEMENT, CLASS AC-20, DUST WITH FINE SAND.

FIRE HYDRANT LINE INSTALLATION PROJECT TYPICAL DETAILS SHEET 2 OF 2		CERAP	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS		EASTERN SERVICE AREA	
REVISIONS		APPROVED BY	
REV	DESCRIPTION	DATE	BY
1	ENGINEERING REVISION (R. ESTADAL)	06/03/2018	RE
2	ENGINEERING REVISION (R. ESTADAL)	07/12/2018	RE
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10	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
11	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
12	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
13	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
14	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
15	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
16	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
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18	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
19	ENGINEERING REVISION (R. ESTADAL)	08/03/2018	RE
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